

Transformations of Parent FUNctions Activity

Classify each function according to the parent function by matching the cards. Describe the transformations that have occurred for each function by writing the description on the back of the function card.

$f(x) = x + 5$	Linear
$f(x) = 3x^2 - 2$	Quadratic
$f(x) = -x^3$	Cubic
$f(x) = \sqrt{x + 8}$	Square Root
$f(x) = (x - 4)^2 + 2$	Parabola
$f(x) = (3x)^2$	Second Degree Polynomial
$f(x) = \frac{1}{x} - 5$	Rational

$f(x) = 5\sqrt{x}$	<p>Radical</p>
$f(x) = x - 2 - 6$	<p>Absolute Value</p>
$f(x) = \frac{1}{3}x$	<p>First Degree Polynomial</p>
$f(x) = \sqrt[3]{x + 1}$	<p>Cube Root</p>
$f(x) = 2(x - 4)^2 + 7$	$f(x) = x^2$
$f(x) = -5(x + 6)^3 - 2$	<p>Third Degree Polynomial</p>
$f(x) = \frac{1}{x + 2} - 4$	$f(x) = \frac{1}{x}$